

# Hearing Protection Devices – Current Research at NIOSH/OMSHR

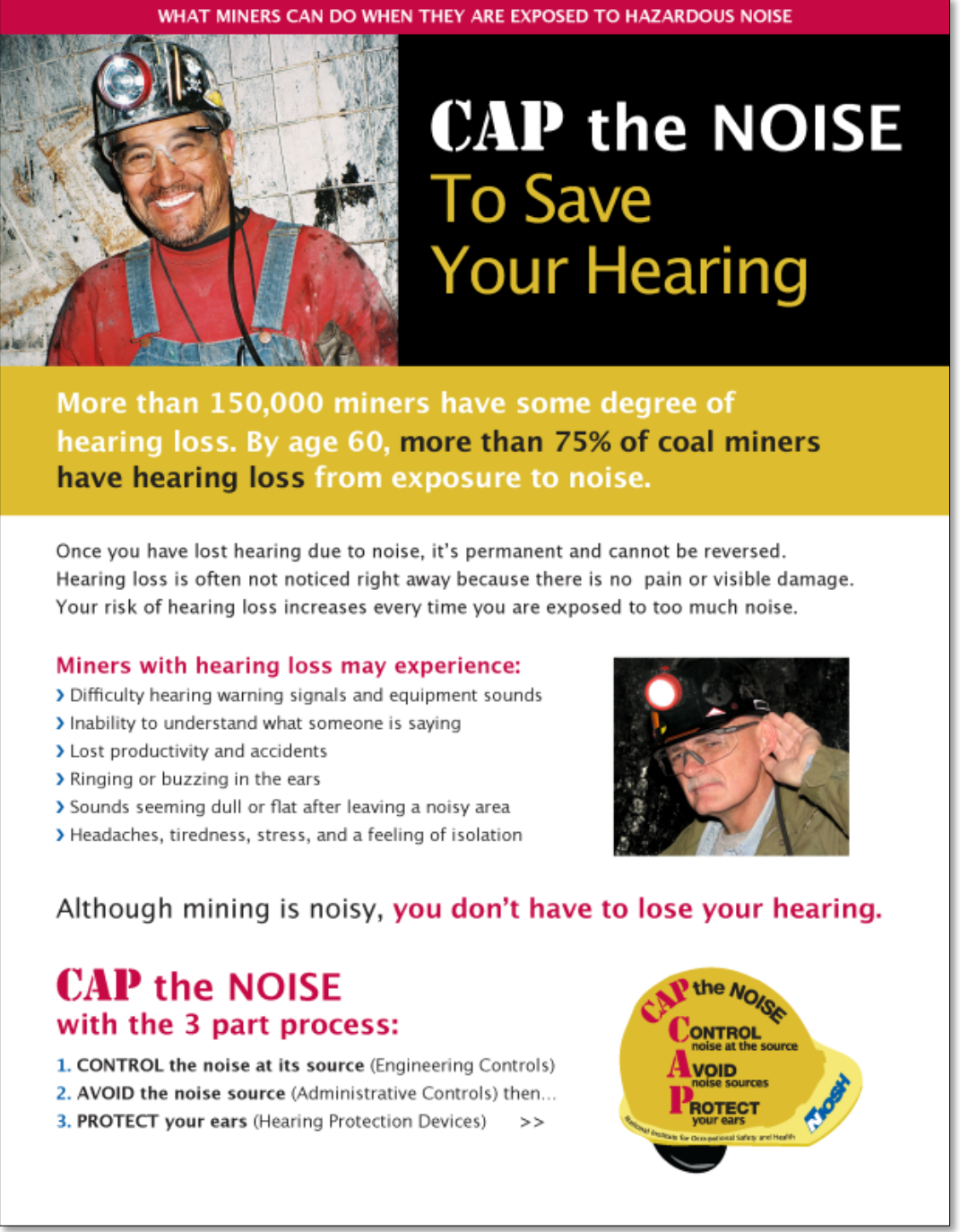
NIOSH Office of Mine Safety and Health Research, Hearing Loss Prevention Branch

## NIOSH CAP the Noise Campaign



CAP sticker

### Noise control guidelines flyer



## NIOSH QuickFit Earplug Tester



Simple 30-second test of earplug protection

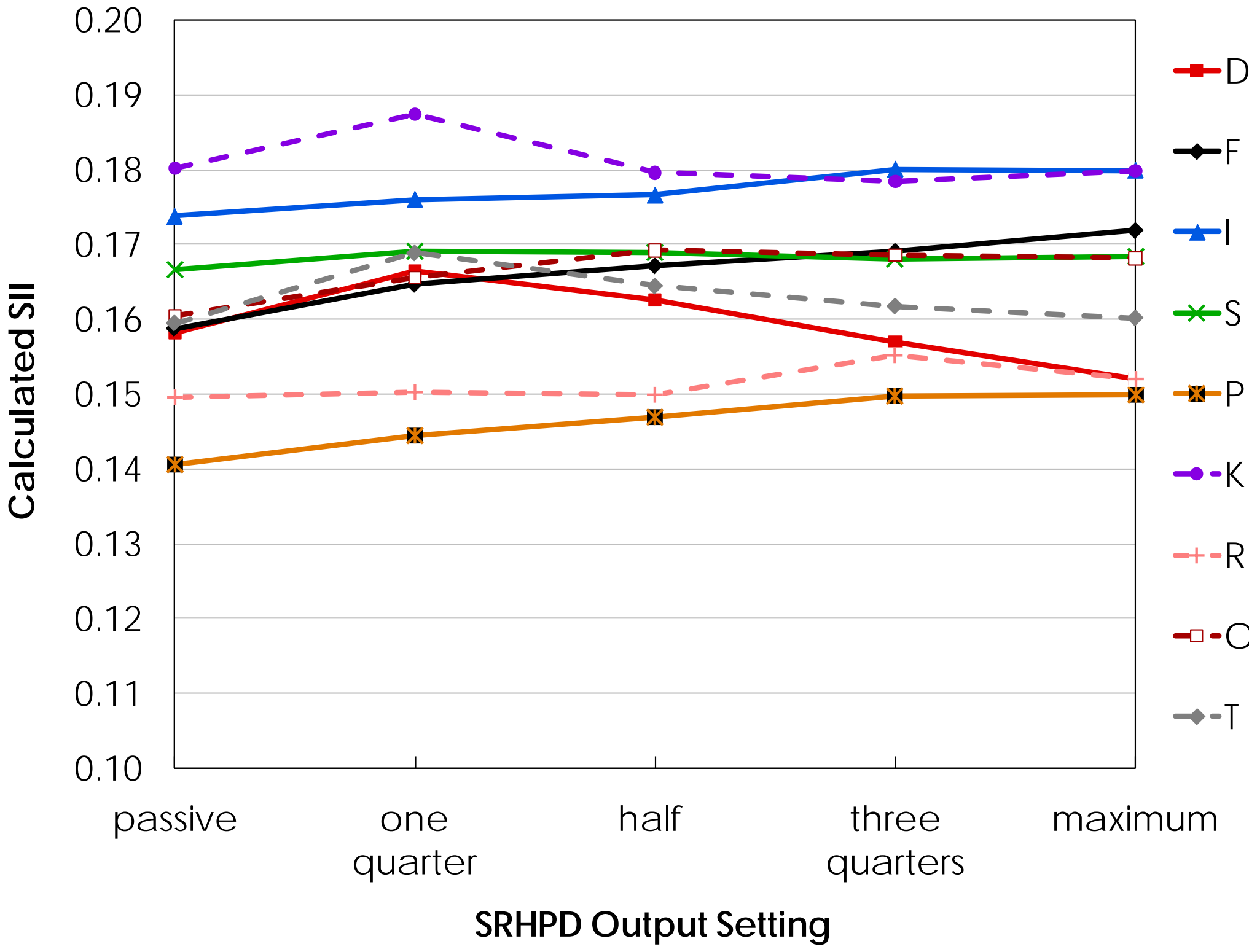


## NIOSH Sound Restoration Hearing Protector Evaluation



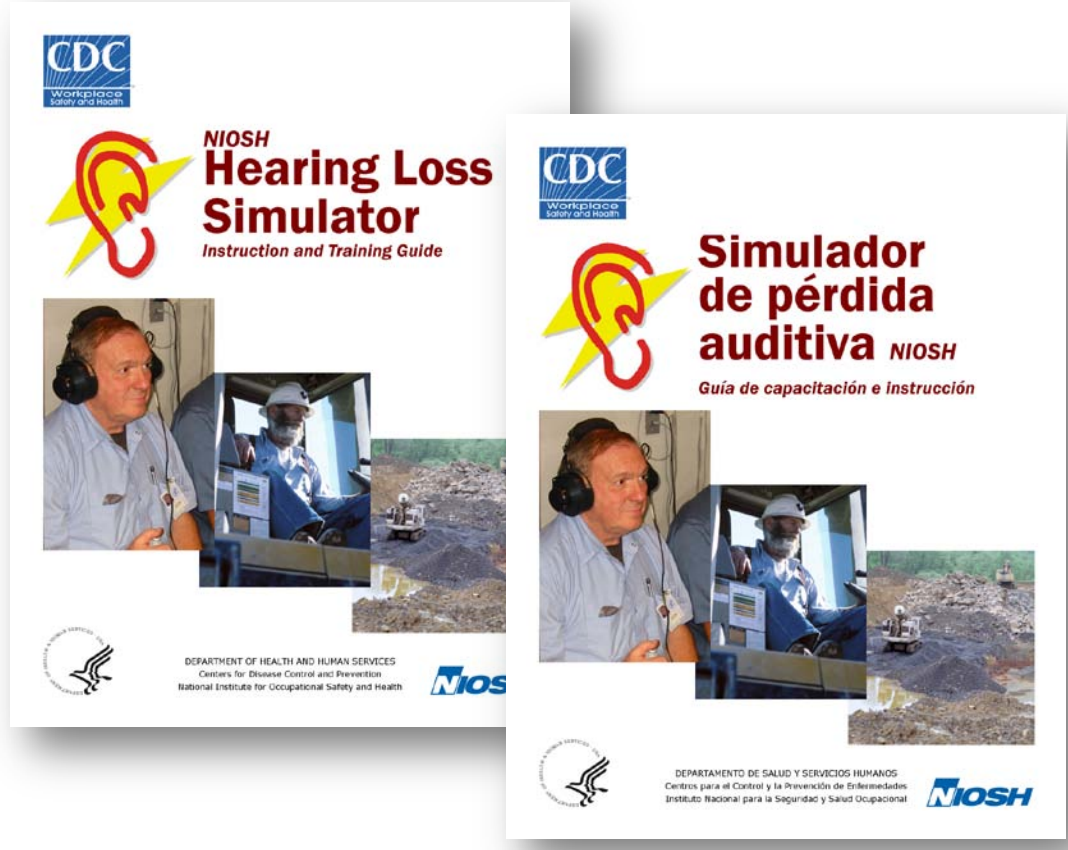
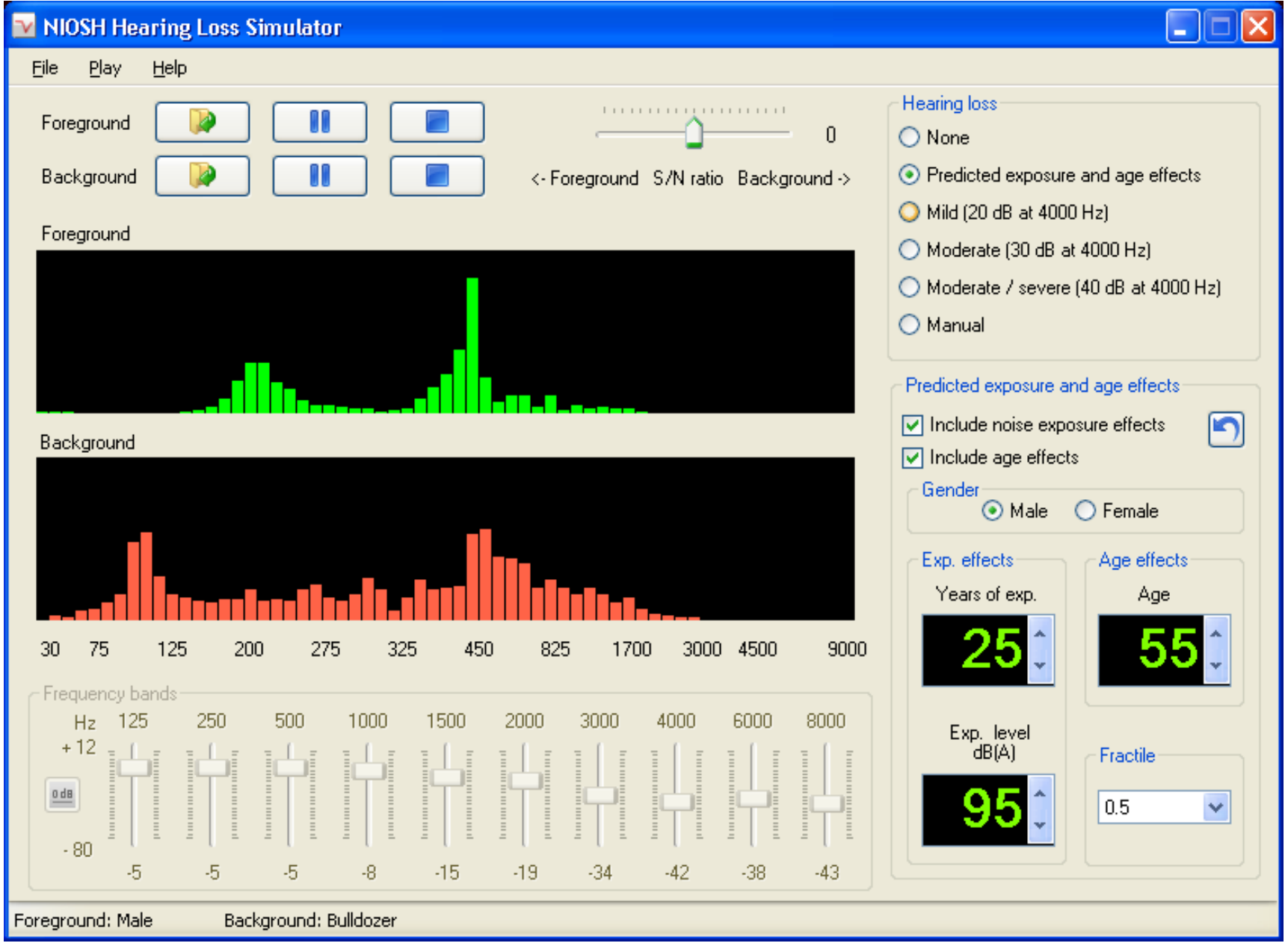
Fixture testing shows noise masking effects result in low speech intelligibility index

SII with 95 dB continuous mining machine noise at different device settings



## NIOSH Hearing Loss Simulator

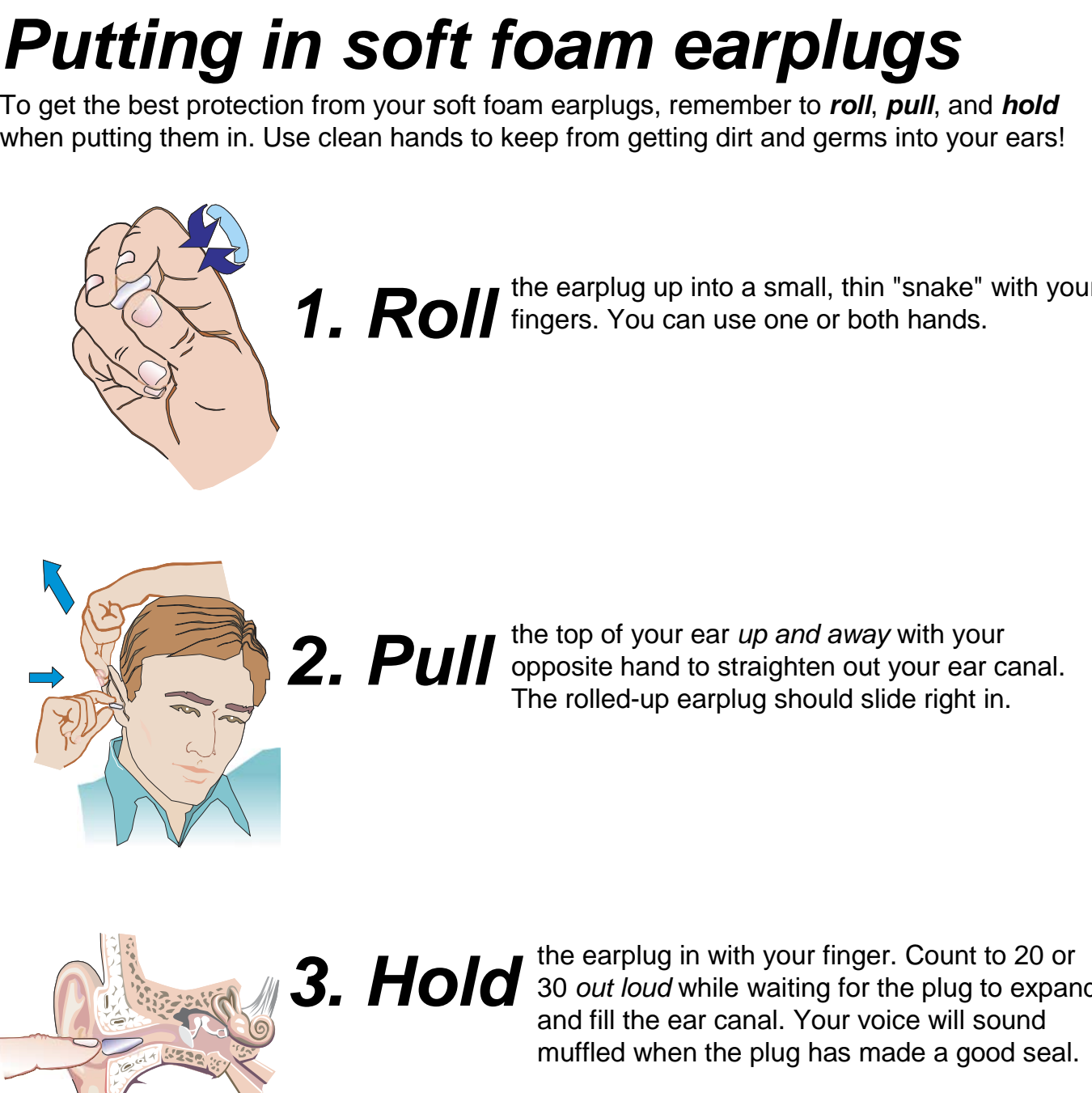
Windows application



Training guides in English and Spanish

## NIOSH Roll-Pull-Hold for Earplugs

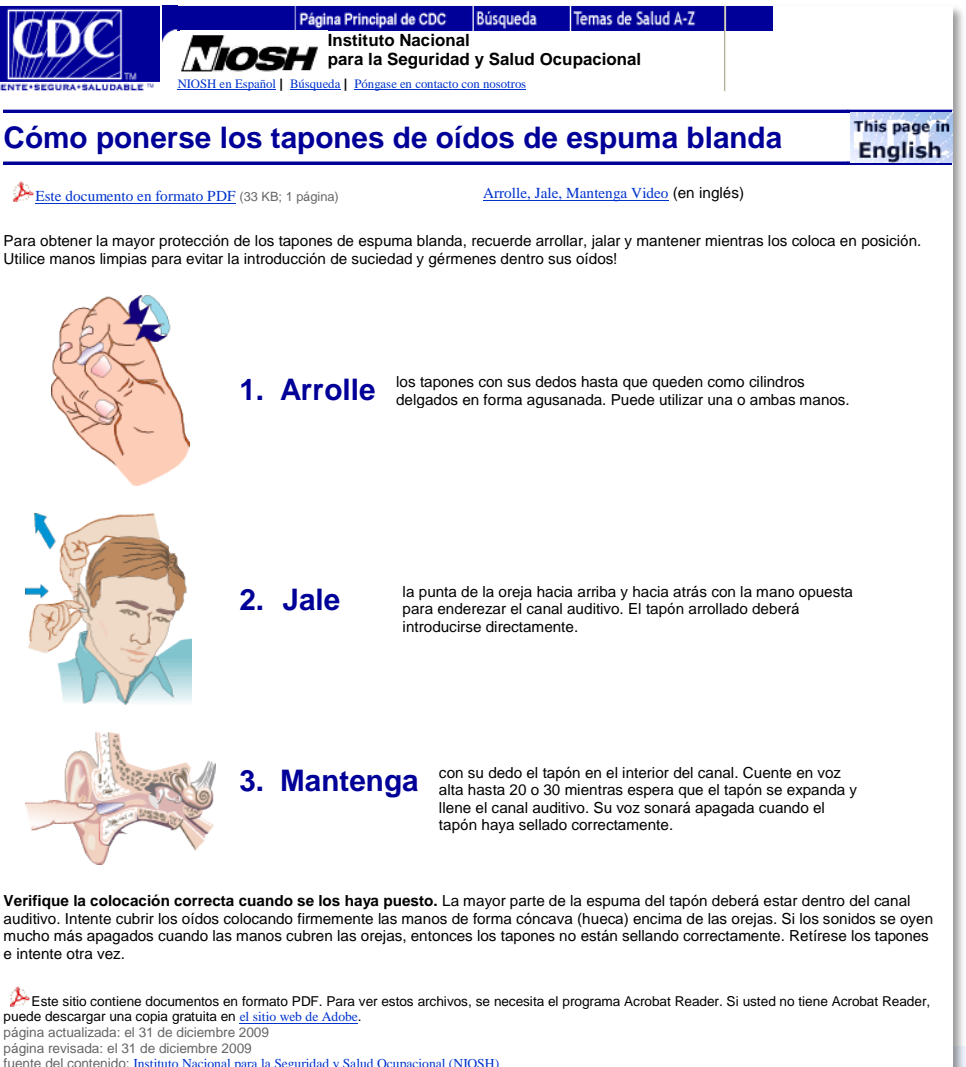
Simplified technique on NIOSH web



Check the fit when you're all done. Most of the foam body of the earplug should be within the ear canal. Try cupping your hands tightly over your ears. If sounds are much more muffled with your hands in place, the earplug may not be sealing properly. Take the earplug out and try again.

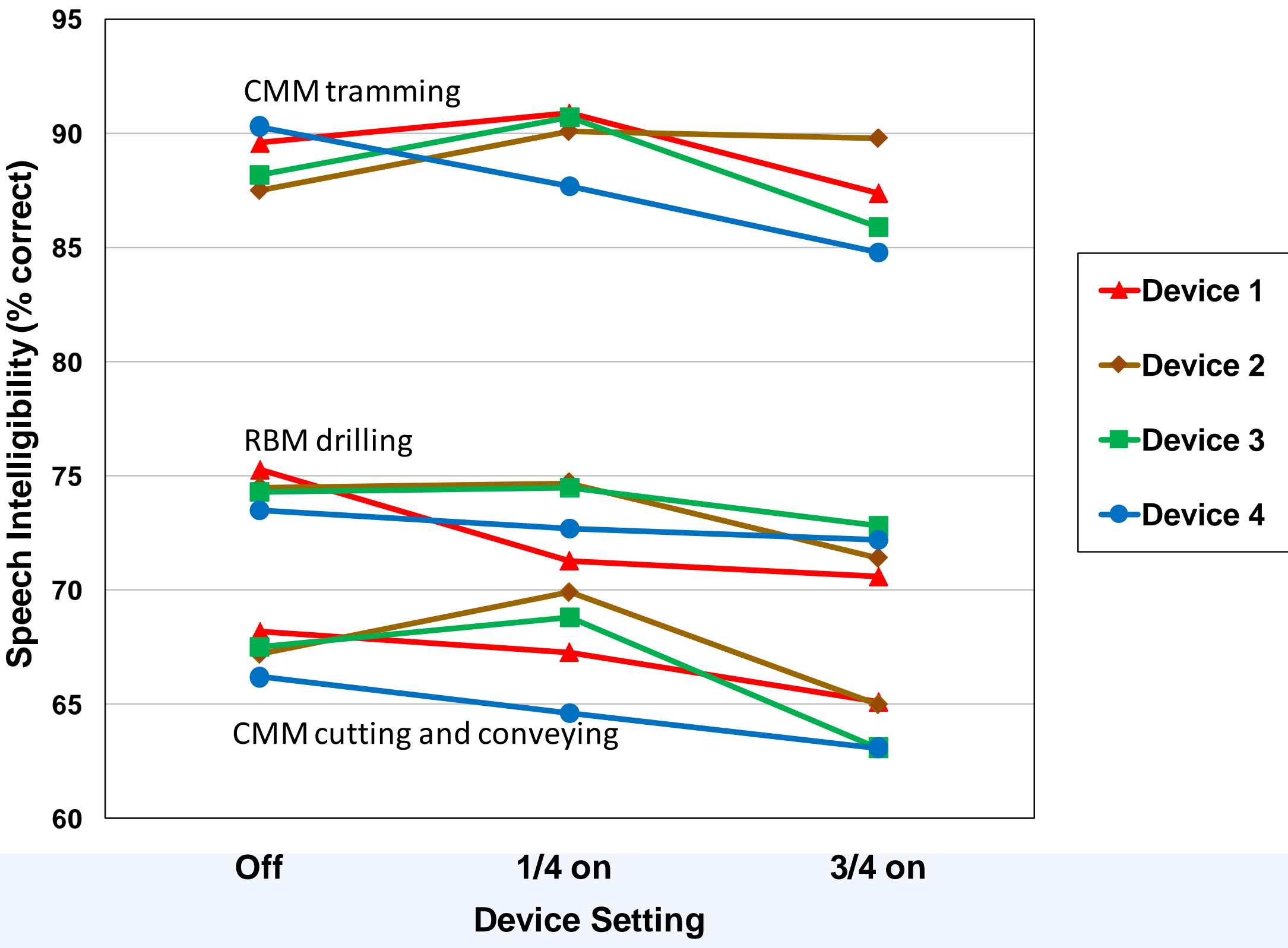
U.S. Department of Health and Human Services  
Centers for Disease Control and Prevention  
National Institute for Occupational Safety and Health  
www.cdc.gov/niosh • 1-800-35-NIOSH

### Also in Spanish



Human subject testing shows small audibility benefits and only at lowest setting

Confirmed that noise masking effects dominate audibility performance



Disclaimer:

The findings and conclusions in this presentation have not been formally disseminated by the National Institute for Occupational Safety and Health and should not be construed to represent any agency determination or policy.